

IN THE CLAIMS:

1 – 9. (Cancelled)

10. (Currently Amended) A nonaqueous electrolyte solution comprising the following components:

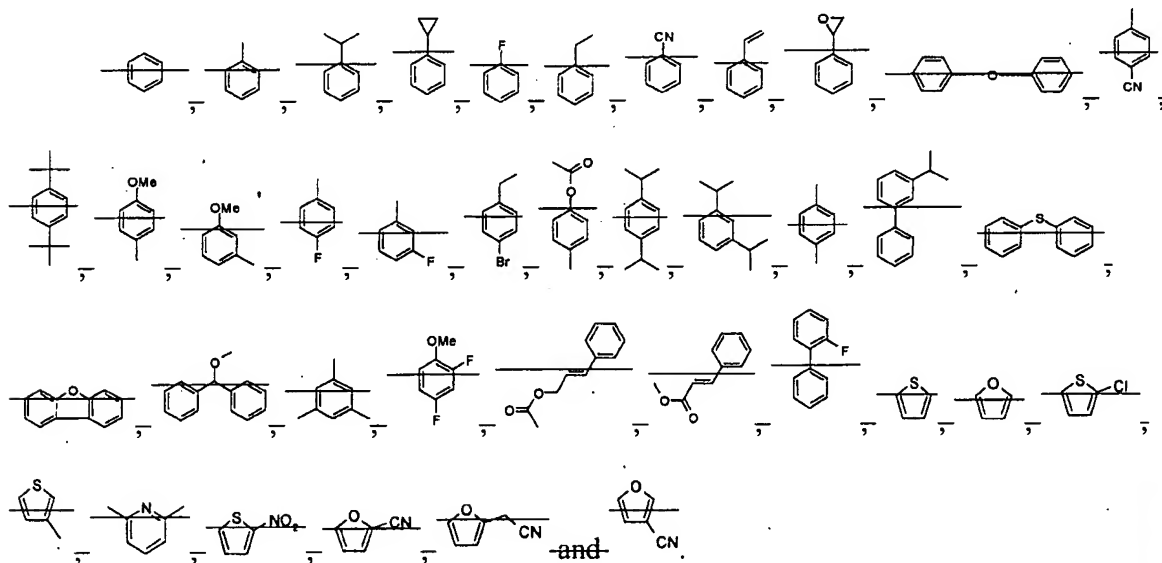
- i) a lithium salt;
- ii) an electrolyte solvent;
- iii) a first additive compound with an oxidation initiation potential of more than 4.2 V;

and

iv) a second additive compound with an oxidation initiation voltage of more than 4.2 V, which is higher in oxidation initiation potential than the first additive, and which deposits oxidative products or forms a polymer film, in oxidation, and

wherein the first additive and the second additive are respectively biphenyl and isopropylbenzene; vinylbenzene and ethylbenzene; toluene and t-butylbenzene; mesitylene and bromoethylbenzene; thiophene and cyclohexylbenzene; or furan and fluorobiphenyl

~~wherein the first additive is selected from the group consisting of~~



11. (Previously Presented) The nonaqueous electrolyte of Claim 10, wherein the content of the first additive is 0.1-2% by weight, and the content of the second additive is 0.5-5% by weight.

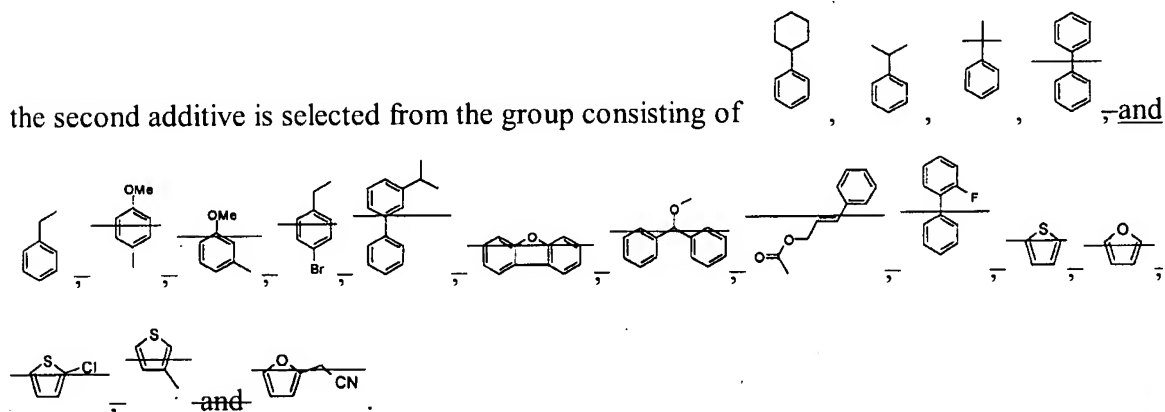
12. (Previously Presented) The nonaqueous electrolyte solution of Claim 10, wherein the oxidation initiation potential of the additives iii) and iv) is 4.2-5.3V.

13. (Previously Presented) The nonaqueous electrolyte solution of Claim 12, wherein the oxidation initiation potential of the additives iii) and iv) is 4.5-4.9V.

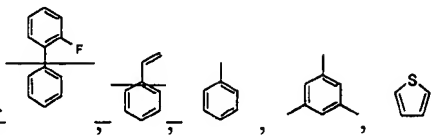

14. (Previously Presented) The nonaqueous electrolyte solution of Claim 10, wherein the compounds of the additives iii) and iv) with an oxidation initiation potential of more than 4.2V are aromatic compounds with an oxidation initiation potential of more than 4.2 V.

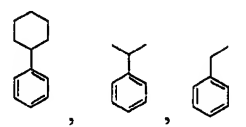
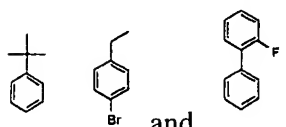
15. (Cancelled)

16. (Currently Amended) The nonaqueous electrolyte solution of Claim 10, wherein



17. (Currently Amended) The nonaqueous electrolyte solution of Claim 10, wherein

the first additive is selected from the group consisting of- ,
and , and

the second additive is selected from the group consisting of ,
, and

18. (Previously Presented) A lithium secondary battery comprising the following components:

- a) a cathode capable of absorbing and releasing lithium ions;
- b) an anode capable of absorbing and releasing lithium ions;
- c) a porous separator; and
- d) the nonaqueous electrolyte solution according to Claim 10.

19. (Previously Presented) The lithium secondary battery of Claim 18, wherein the content of the first additive compound is 0.1-2% by weight, and the content of the second additive compound is 0.5-5% by weight.

20. (Previously Presented) The lithium secondary battery of Claim 18, wherein the oxidation initiation potential of the additives iii) and iv) is 4.2-5.3V.

21. (Previously Presented) The lithium secondary battery of Claim 20, wherein the oxidation initiation potential of the additives iii) and iv) is 4.5-4.9V.

22. (Previously Presented) The lithium secondary battery of Claim 18, wherein the compounds of the additives iii) and iv) with an oxidation initiation potential of more than 4.2V are aromatic compounds with an oxidation initiation potential of more than 4.2 V.

23. (Cancelled)






24. (Currently Amended) The lithium secondary battery of Claim 18, wherein the


second additive compound is selected from the group consisting of

and

25. (Currently Amended) The lithium secondary battery of Claim 18, wherein the first

additive compound is selected from the group consisting of-

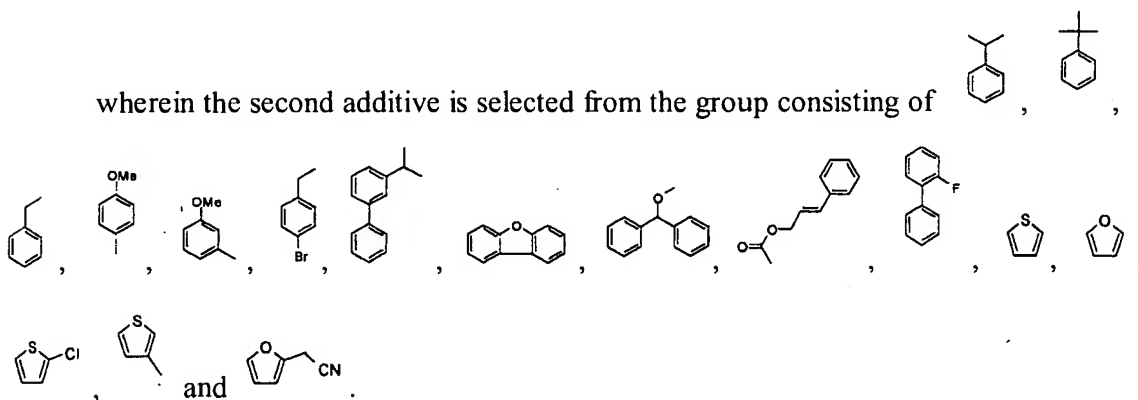
and , and

the second additive compound is selected from the group consisting of

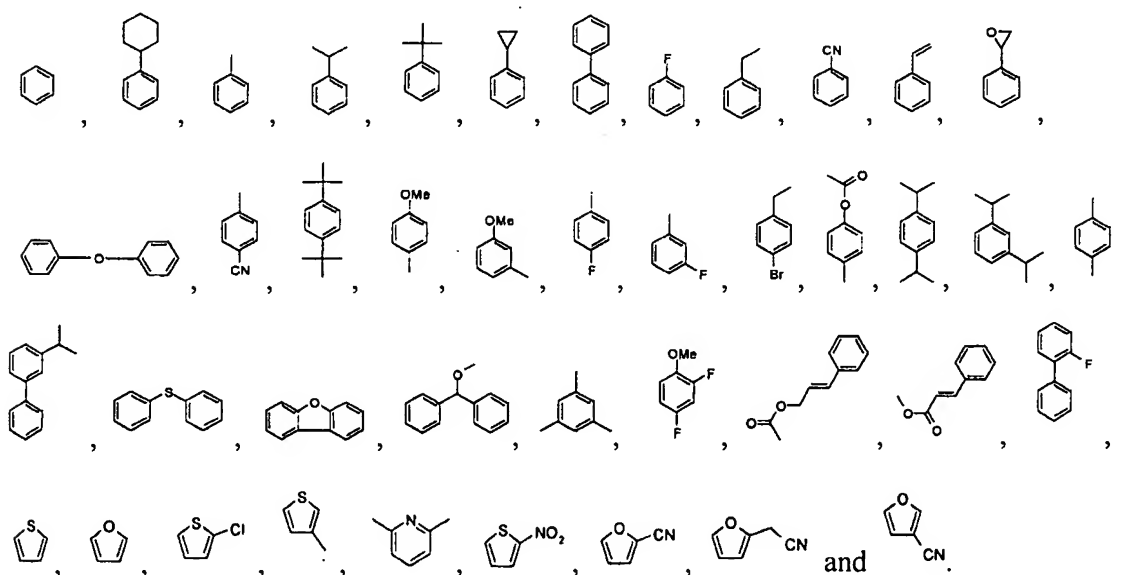
26. (Withdrawn) A nonaqueous electrolyte solution comprising:

- i) a lithium salt;
- ii) an electrolyte solvent;
- iii) a first additive compound with an oxidation initiation potential of more than 4.2 V;
- and
- iv) a second additive compound with an oxidation initiation voltage of more than 4.2 V, and which is higher in oxidation initiation potential than the first additive, and which deposits oxidative products or forms a polymer film, in oxidation,

wherein the second additive is selected from the group consisting of



27. (Withdrawn) The nonaqueous electrolyte solution of claim 26, wherein the first additive is selected from the group consisting of



28. (Withdrawn) A lithium secondary battery comprising:

- a) a cathode capable of absorbing and releasing lithium ions;
- b) an anode capable of absorbing and releasing lithium ions;
- c) a porous separator; and
- d) the nonaqueous electrolyte solution according to claim 26

29. (Withdrawn) The lithium secondary battery of claim 28, wherein the first additive

is selected from the group consisting of

